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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/840,434	04/23/2001	John A. Hummel	DKT 99083	4174

23446 7590 07/29/2003

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[REDACTED] EXAMINER

JOHNSON, VICKY A

ART UNIT	PAPER NUMBER
3682	

DATE MAILED: 07/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/840,434	HUMMEL ET AL.	
Examiner		Art Unit	
Vicky A. Johnson		3682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 30 June 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-9 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-9 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|--|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ . |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ . | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-6 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Ichikawa (US 5,989,140).

Ichikawa et al disclose a silent chain and sprocket assembly wherein the teeth (6a) o the back side sprocket (6) are low profile protrusions extending outwardly from the sprocket and the links of the inner and outer link rows form a surface that extends along the chain direction of the links a distance that approximates the distance from a center of a member joining the link to one adjacent row of links to a center of and member joining the link to another adjacent row links (see Fig 3) overlies and contacts the sprocket protrusions at a back side of the chain (col. 2 lines 17-42). The links have a surface that defines two teeth extending from the link at the front side of the chain, the low profile protrusions (6a) are formed by two sprocket surfaces, the sides of the teeth that meet the protrusion and extend oppositely from each other a distance that is approximately the length of the back side surface of the link plate.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ichikawa (US 5,989,140) in view of Aydelott (US 270,723).

Ichikawa et al disclose a silent chain and sprocket assembly as described above, but does not disclose the back side sprocket surfaces as being generally flat that extend from the sprocket near their first and second ends.

Aydelott disclose a sprocket with generally flat sprocket surfaces that extend from the sprocket near the first and second ends (see Fig 3).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the assembly of Ichikawa et al to include the sprocket of Aydelott in order to as it is old in the art to utilize a sprocket with generally flat sprocket surfaces that extend from the sprocket near their first and second ends in a chain and sprocket assembly.

Response to Amendment

Some further comments regarding the amendment filed June 30, 2003 are deemed appropriate.

The amendment further defines the surface to extend between the centers of the members joining the link together. This feature is found in the Ichikawa et al reference see Figure 1. The surface is further defined to overlie and contact the sprocket protrusions along the majority of the length of the surface. In column 2 lines 17-42, Ichikawa et al describe the guide plates (7) as "...the guide plates come into abutment

with side surfaces of the teeth of the sprocket." Therefore the Ichikawa et al reference still meets the limitations of the claim.

The Applicant's remarks have been accorded due consideration, however, they are not deemed fully persuasive.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vicky A. Johnson whose telephone number is (703) 305-3013. The examiner can normally be reached on Monday-Thursday (7:00a-5:00p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Bucci can be reached on (703) 308-3668. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9326 for regular communications and (703) 872-9327 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

vaj *7/27/03*
July 27, 2003

Thomas R. Hannon
Thomas R. Hannon
Primary Examiner